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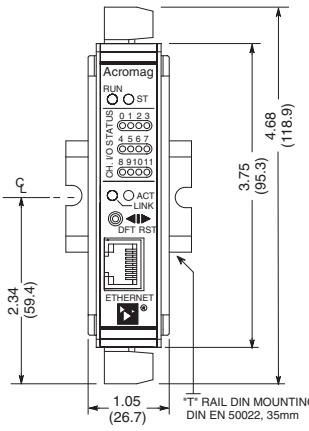
Find the *Acromag BusWorks 981EN-4012* at our website: *Click HERE*

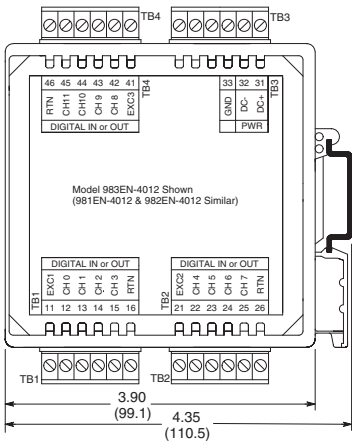
Ethernet I/O: BusWorks® Series

981EN, 982EN, 983EN Ethernet Discrete I/O Modules

RoHS Compliant | Ex | cULus LISTED | CE | 24 HOUR STOCK ITEM | 2 YEAR WARRANTY







Standard model includes cage clamp terminal blocks. Optional terminals are available (see Page 26).

EtherNet/IP conformance tested

Modbus/TCP conformance tested

12-channel Discrete Input and/or Output ◆ Ethernet/IP, Modbus TCP/IP, i2o® Peer-to-peer Messaging

Description

Models

981EN: 12 input channels
982EN: 12 output channels
983EN: 12 input/output channels

These modules provide an isolated Ethernet network interface for twelve discrete input and/or output channels. The outputs provide direct on/off, high/low, or open/close control of industrial devices. The inputs sense the status of motors, pumps, valves and other equipment. The 983EN model with tandem I/O provides output level control and status verification in one unit.

Input Range

0 to 35V DC

Output Range

0 to 35V DC

Network Communication

EtherNet/IP or Modbus TCP/IP 10/100Mbps with automatic data rate negotiation

Power Requirement

15 to 36V DC supply (2 Watts) required

Approvals

CE/ATEX marked.
UL, cUL listed, Class I; Div. 2; Groups A, B, C, D.
EtherNet/IP, Modbus/TCP conformance tested.

Key Features & Benefits

- Configurable from standard web browser
- 12-channel stand-alone module has far lower start-up cost than multi-piece block I/O systems
- 0-35V DC solid-state logic interface can monitor or control a wide variety of devices
- Bidirectional I/O models facilitate loopback monitoring of the output state
- Socketed SIP resistors provide input and output 5.6K ohm pull-ups to the excitation supply
- Three selectable failsafe modes (off, last-state, or pre-defined) help prevent unsafe conditions

Performance Specifications

◆ Input (981 & 983 models)

Input Type
Twelve active-low, buffered inputs, with a common connection. Built-in 5.6K ohm pullups to excitation terminal socketed for 4-channel groups.

Input Signal Voltage Range
0 to 35V DC, maximum.

Input Impedance
100K ohms, typical.

Input Signal Threshold
TTL compatible with 100mV of hysteresis, typical.

◆ Output (982 & 983 models)

Output Type
12 independent, open-drain, MOSFET switches.

Output Voltage and ON Resistance
0 to 35V DC max. (0 to 500mA/channel continuous).
0.28 ohms maximum ON resistance.

◆ Environmental

Ambient Temperature and Humidity
Operating: -25 to 70°C (-13 to 158F)
Storage: -40 to 85°C (-40 to 185°F)
Relative Humidity: 5 to 95%, non-condensing.

Isolation
1500V AC for 60 seconds or 250V AC continuous.
3-way isolation between I/O, network, and power.

Ordering Information

NOTE: i2o function only on Modbus TCP/IP modules. 981EN does not have the i2o feature.

◆ I/O Modules

981EN-4012
Discrete input, Ethernet Modbus TCP/IP

981EN-6012
Discrete input, EtherNet/IP

982EN-4012
Discrete output, Ethernet Modbus TCP/IP, i2o

982EN-6012
Discrete output, EtherNet/IP

983EN-4012
Discrete input/output, Ethernet Modbus TCP/IP, i2o

983EN-6012
Discrete input/output, EtherNet/IP

◆ Accessories

Industrial Ethernet Switches

Hardware Accessories and Power Supplies

Software Support

Acromag® THE LEADER IN INDUSTRIAL I/O

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Gold-standard solutions

Extend the life of your critical industrial, commercial, and military systems with our superior service and support.

We buy equipment

Planning to upgrade your current equipment? Have surplus equipment taking up shelf space? We'll give it a new home.

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Visit us at **artisantg.com** for more info on price quotes, drivers, technical specifications, manuals, and documentation.

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